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Salt Division

20 February 1990

Frank Brock  
UNDERGROUND INJECTION CONTROL SECTION  
USEPA REGION II  
Jacob K Javits Federal Bldg.  
New York, New York 10279

Dear Mr. Brock:

The following wells were tested for mechanical integrity during 1989 as a condition of UIC Permit #NYU 063860. All well tests were witnessed by Mr. Dermott Courtney of your office:

<u>Well No.</u>	<u>Test Date</u>
44, 43, 34	June 9, 1989
48, 50	June 8, 1989
55, 47, 56	June 8, 1989
57, 52	June 8, 1989
49	June 8, 1989

Test results are attached; all tested wells performed acceptably.

The following wells are to be tested during the week of April 9, 1990:

35, 36, 38, 39, 40, 41, 42, 51

I will contact Mr. Courtney the week before to confirm the test dates.

These tests will complete the testing of all Class III Solution Mining Wells at our Watkins Glen facility.

If you require further information on any of these test results, please give me a call - (717) 587-9353.

Sincerely,

Michael J. Schumacher  
Minerals Development Engineer

MJS:fab  
Attachment  
L2:JMALLEC1

xc: Gayle D. Petrick, Gordon Aitken, James A. Loose  
Watkins Glen Well File

Akzo Salt Inc.  
Abington  
Executive Park  
P O Box 352  
Clarks Summit,  
Pennsylvania  
18411-0352  
Phone and Fax:  
717/587-5131  
Cable: ISCO,  
Clarks Summit, PA  
Telex: 83-1872

# WATKIN'S GLEN TEST PRESSURES

USING HOY'S POINT PUMP - 1187 ft AVAILABLE HEAD - 445 ft ELEVATION

USING 20 POINT PUMP - 1051 ft AVAILABLE HEAD - 445 ft ELEVATION

TEST PRESSURE = (PUMP HEAD-WELL ELEVATION+PUMP ELEVATION)\*.433 PSI/FT

GALLERY	WELL NO.	PUMP	ELEV	TEST FLUID	TEST PRESSURE
4	34	20 PT	713	B	
4	43		704	B	
4	44		716	W	338
5	35	HOY'S	780	W	369
5	36		736	B	
6	38	HOY'S	536	W	475
6	41		656	W	423
7	40	HOY'S	733	B	
7	42		550	W	469
8	48	HOY'S	812	W	355
8	50		738	W	387
9	47	HOY'S	793	W	363
9	55		806	W	358
9	56		829	W	348
10	52	20 PT	697	B	
10	57		700	W	345
	39	HOY'S	777	W	370
	49		817	W	353
	51		673	W	415

AKZO SALT INC.  
WATKIN'S GLEN PLANT  
MECHANICAL INTEGRITY TEST  
PERMIT NYU063860

DATE 6/9/89  
WELL NO. 44  
GALLERY NO. 4  
OTHER GALLERY WELLS 34,43  
TEST FLUID WATER

DATE	TIME	PRESSURES (psig)		
		DIAL GAUGE	DEAD WEIGHT GAUGE	VIATRAN GAUGE
6/9/89	09:26	330	335	336
	10:26	330	335	336

OBSERVED LOSS 0 0 0

ALLOWABLE LOSS (5%) 16

Well initially pressured to 335 psi on 6/7/89.

Well 34 pressure at start of test : 113psi , at end of test : 114psi

Well 43 pressure at start of test : 125psi , at end of test : 125psi  
(Wells brine filled)

Pipeline valves to all wells in the gallery were closed prior to the test.

Pressures on the test well were measured with a dial gauge, deadweight gauge, and a Viatran electronic gauge in parallel.

Test performed by M. R. Chumac

Test witnessed by D. Courtney, USEPA Reg.II

AKZO SALT INC.  
WATKIN'S GLEN PLANT  
MECHANICAL INTEGRITY TEST  
PERMIT NYU063860

DATE 6/8/89  
WELL NO. 48  
GALLERY NO. 8  
OTHER GALLERY WELLS 50  
TEST FLUID WATER

DATE	TIME	PRESSURES (psig)		
		DIAL GAUGE	DEAD WEIGHT GAUGE	VIATRAN GAUGE
6/8/89	14:58	347	350	351
	15:58	347	350	351

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OBSERVED LOSS 0 0 0

ALLOWABLE LOSS (5%) 17

Well initially pressured to 346 psi on 6/7/89.

Well 50 pressure at start of test : 371psi , at end of test : 371psi

(Well water filled)

Pipeline valves to both wells in the gallery were closed prior to the test.

Pressures on the test well were measured with a dial gauge, deadweight gauge, and a Viatran electronic gauge in parallel.

Test performed by

M. Schuman

Test witnessed by D. Courtney, USEPA Reg. II

AKZO SALT INC.  
WATKIN'S GLEN PLANT  
MECHANICAL INTEGRITY TEST  
PERMIT NYU063860

DATE 6/8/89  
WELL NO. 55  
GALLERY NO. 9  
OTHER GALLERY WELLS 47,56  
TEST FLUID WATER

PRESSURES (psig)				
DATE	TIME	DIAL GAUGE	DEAD WEIGHT GAUGE	VIATRAN GAUGE
6/8/89	13:42	350	355	353
	14:42	350	355	353

OBSERVED LOSS 0 0 0

ALLOWABLE LOSS (5%) 17

Well initially pressured to 352 psi on 6/7/89.

Well 47 pressure at start of test : 363psi , at end of test : 362psi  
Well 56 pressure at start of test : 345psi , at end of test : 345psi  
(Wells water filled)

Pipeline valves to all wells in the gallery were closed prior to the test.

Pressures on the test well were measured with a dial gauge, deadweight gauge, and a Viatran electronic gauge in parallel.

Test performed by W. Schuman

Test witnessed by D. Courtney, USEPA Reg.II

AKZO SALT INC.  
WATKIN'S GLEN PLANT  
MECHANICAL INTEGRITY TEST  
PERMIT NYU063860

DATE 6/8/89  
WELL NO. 57  
GALLERY NO. 10  
OTHER GALLERY WELLS 52  
TEST FLUID WATER

DATE	TIME	PRESSURES (psig)		
		DIAL GAUGE	DEAD WEIGHT GAUGE	VIATRAN GAUGE
6/8/89	16:16	340	345	343
	17:16	340	345	343

OBSERVED LOSS 0 0 0

ALLOWABLE LOSS (5%) 17

Well initially pressured to 340 psi on 6/7/89.

Well 52 pressure at start of test : 129psi , at end of test : 129psi

(Well brine filled)

Pipeline valves to both wells in the gallery were closed prior to the test.

Pressures on the test well were measured with a dial gauge, deadweight gauge, and a Viatran electronic gauge in parallel.

Test performed by



Test witnessed by D. Courtney, USEPA Reg.II

AKZO SALT INC.  
WATKIN'S GLEN PLANT  
MECHANICAL INTEGRITY TEST  
PERMIT NYU063860

DATE 6/8/89  
WELL NO. 49  
GALLERY NO.  
OTHER GALLERY WELLS NONE  
TEST FLUID WATER

DATE	TIME	PRESSURES (psig)		
		DIAL GAUGE	DEAD WEIGHT GAUGE	VIATRAN GAUGE
6/8/89	12:27	350	350	353
	13:27	350	350	351

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OBSERVED LOSS	0	0	2
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ALLOWABLE LOSS (5%)	17
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Well initially pressured to 347 psi on 6/7/89,  
Repressured to 350 psi on 6/8/89.

Pipeline valves to the well were  
closed prior to the test.

Pressures on the test well were measured with a dial gauge,  
deadweight gauge, and a Viatran electronic gauge in parallel.

Test performed by



Test witnessed by D. Courtney, USEPA Reg. II

DCS BRV/MJM  
JUL 15 1989